


# Solar Pool Heating - Rough Sizing Guide





(For detailed sizing please refer to installation manual or local contractor)


**a. Pool's surface area**

$a =$    $ft.^2$

Round   
 $3.14 \times \text{diameter} \times \text{diameter} \times 0.25$

Kidney   
 $\text{length} \times \text{width} \times 0.75$

Rectangular   
 $\text{length} \times \text{width}$

Oval   
 $0.5 \times \text{length} \times 0.5 \text{ width} \times 3.14$

**b. Solar area**

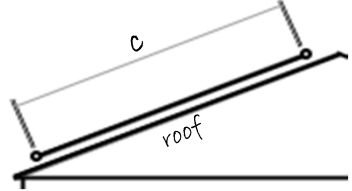
$b =$    $ft.^2$

Panels facing south = **50%** of step **a** ( $0.5 \times a$ )  
 Panels facing East, West or shaded = **75%** of step **a** ( $0.75 \times a$ )  
 (Indoor pools require **100%** from step **a**)

**c. Panel's length**

$c =$    $ft.$

Panels are available from 6ft to 20ft long (1ft increments). However, the available roof or rack space determine the length.  
 - 8ft, 10ft, and 12ft are most common  
(Gap must be left for piping + access top/bottom, refer to local codes)



**d. Number of panels**  
(± foot wide)

$d =$    $\text{boxes}$

# Panels = solar area ÷ panels' length  
 $d = b \div c$

- Additional Items**
- System Kit  
 x System Kit (UPP-ESOL-SYSKT)
- Controls  
 x Auto Controller (ASC-PST-2000)  
**OR**  
 x Manual 3-way Valve (XAA436)
- Piping  
 x Pipe, 1.5" PVC, 10ft. Length (PVCB-415A-PIPE)  
 x TekTube, 1.5" PVC, 100ft Roll (XAA407)
- Fittings  
 x Elbow 90, 1.5" PVC, Slip (XAA420)  
 x Tee, 1.5" PVC, Slip (XAA424)  
 x Elbow 45, 1.5" PVC, Slip (XAA415)  
 x Coupler, 1.5" PVC, Slip (XAA411)
- Valves  
 x Ball Valve with Union - 1.5" Slip (XAA431)  
 x Check valve with union - 1.5" Slip (XAA432)
- Enersol offers a variety of other fittings. All piping and fittings are also available in 2"

System Sketch and Notes: